

X

DATE FILED	1-30-85		
LAND: FEE & PATENTED	STATE LEASE NO	PUBLIC LEASE NO	INDIAN 14-20-603-409A
DRILLING APPROVED	2-4-85 - OIL		
SPUDDED IN:			
COMPLETED:	PUT TO PRODUCING:		
INITIAL PRODUCTION:			
GRAVITY API:			
GOR			
PRODUCING ZONES			
TOTAL DEPTH:			
WELL ELEVATION	# 9656' GR.		
DATE ABANDONED:	VA Application Rescinded 3-28-84		
FIELD:	GREATER ANETH		
UNIT:	WHITE MESA		
COUNTY:	SAN JUAN		
WELL NO	WHITE MESA UNIT #27-33		
LOCATION	2311' FSL	FT. FROM (N) (S) LINE.	2448' FEL
		FT. FROM (E) (W) LINE.	NW SE
			API #43-037-31143
			1/4 - 1/4 SEC 27

API #43-037-31143

1/4 - 1/4 SEC. 27

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
41S	24E	27	SUPERIOR OIL COMPANY				

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR

P. O. DRAWER 'G', CORTEZ, COLORADO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

2311' FSL, 2448' FEL, SEC. 27 NWSE

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

6 miles southeast of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

192'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1283.5'

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

19. PROPOSED DEPTH

5600'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

Ungraded ground level 4655.7'

22. APPROX. DATE WORK WILL START*

April, 1985

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5# K-55	120'	177 ft ³ cmt to surface
12-1/4"	9-5/8"	36# K-55	1400'	876 ft ³ cmt to surface
8-3/4"	7"	23# K-55	5600'	590 ft ³ cmt or sufficient to cover zones of interest.

Superior Oil proposes to drill a well 5600' to test the Ismay and Desert Creek formations. If productive we will run casing and complete. If dry, we will plug and abandon as per BLM, BIA and State of Utah regulations.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 2/14/85

BY: James S. Andres

RECEIVED
JAN 30 1985

DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED James S. Andres TITLE Petroleum Engineer

DATE 12-14-84

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

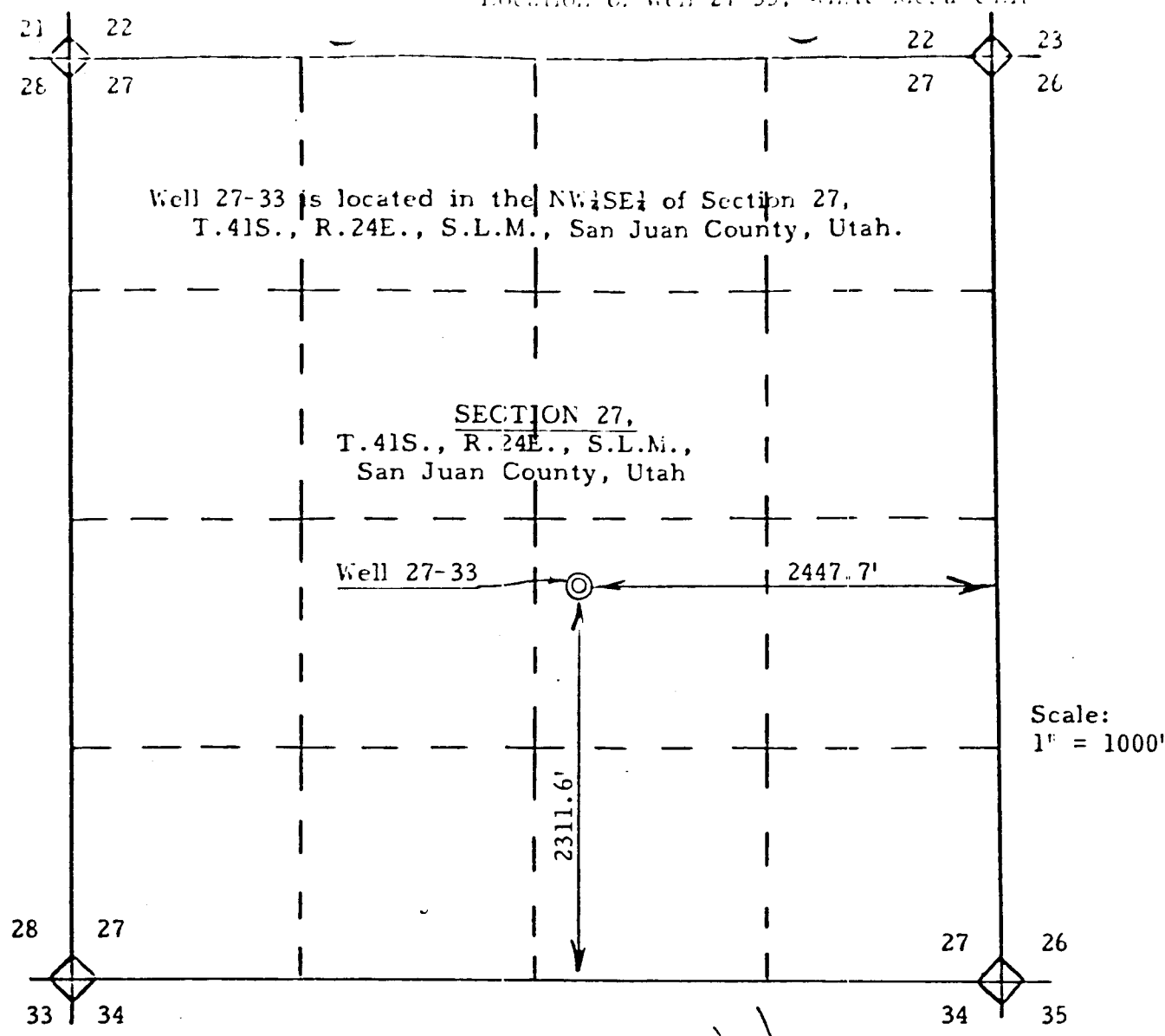
APPROVED BY _____

TITLE _____

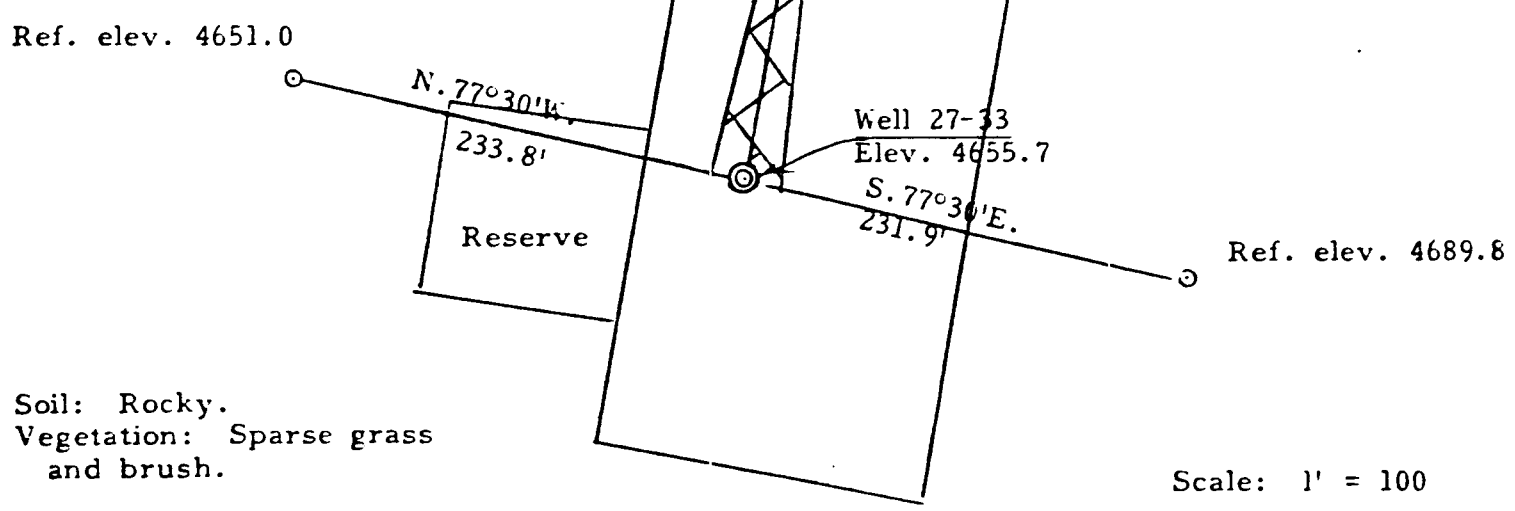
DATE _____

CONDITIONS OF APPROVAL, IF ANY:

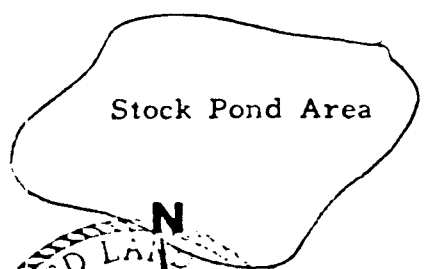
*See Instructions On Reverse Side



Elevations are based on elevations of existing wells.
Bearing is based on the bearing of the north line of Section 4, T.42S., R.24E. This bearing is east-west.



Soil: Rocky.
Vegetation: Sparse grass and brush.



KNOW ALL MEN BY THESE PRESENTS:
THAT I, FREDRIC P. THOMAS
do hereby certify that I prepared this plot from an
actual and accurate survey of the land and that the
same is true and correct to the best of my knowledge
and belief.

Fredric P. Thomas

FREDRIC P. THOMAS
Reg. L.S. and P.E.
Colo. Reg. No. 6728

Bearing
Solar
observation



THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
565-4496

Plot No. 7

Utah Reg. No. 4346

SUPPLEMENT TO FORM 3160-3

WELL: White Mesa Unit #27-33

ELEVATION: Ungraded ground level 4655.7'

SURFACE FORMATION: Dakota

ESTIMATED FORMATION TOPS:	<u>Formation</u>	<u>Top</u>
	Chinle	1349'
	DeChelly	2459'
	Organ Rock	2694'
	Hermosa	4390'
	Ismay	5228'
	Lower Ismay	5310'
	Gothic Shale	5375'
	Desert Creek	5392'
	Chimney Rock Shale	5554'
	TD	5600'

WATER BEARING FORMATION: Fresh water is expected to be encountered intermittently from 120' to 1349'.

HYDROCARBON BEARING FORMATION: Oil & gas could be encountered in the Ismay and Desert Creek from 5228' to 5554'.

MUD PROGRAM:

Surface to 100' - spud mud.

100' to 1349' - fresh water.

1349' to 2350' - fresh water/gel/polymer.

2350' to 5100' - lignosulfonate mud system.

5100' to TD - lignosulfonate mud system. Water loss controlled to 15 cc or less and weighted with barite as necessary.

CASING PROGRAM:	<u>Depth</u>	<u>Hole Size</u>	<u>O. D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>
Conductor	0-120'	17-1/2"	13-3/8"	54.5#	K-55	ST&C
Surface	0-1400'	12-1/4"	9-5/8"	36#	K-55	ST&C
Production	0-5600'	8-3/4"	7"	23#	K-55	ST&C

ALL CASING WILL BE NEW.

(2)

CEMENT PROGRAM: Conductor - cement to surface w/ 150 sx (177 ft³)
Class 'B' + 2% CaCl.

Surface - cement to surface w/ 380 sx (699 ft³)
Lite + 10#/sk Gilsonite + .4% LoDense +
5#/sk LCM & 150 sx (177 ft³) Class 'B'
+2% CaCl.

Production - 500 sx (177 ft³) Class 'B' + 1.7%
D-29 (antimigration additive) + .3%
R-5 (retarder). Est TOC: 4200'.

PRESSURE CONTROLS: Blowout preventer equipment will be 10" Series
900 (3000 psig working pressure) with blind rams
and drill pipe rams hydraulically and manually
controlled. The BOP's will be tested to 1500 psig
and actuated daily to insure proper functioning.
The schematic of the pressure control equipment can
be seen on the attached diagram.

LOGGING PROGRAM: DIL/SFL: TD to 1400'.

CNL/FDC: TD to 4300'.

MICROLOG: TD to 4300'.

HIGH PRESSURE AND/OR H₂S GAS: High pressure gas or gas containing detectable
H₂S are not anticipated while drilling
this well.

DRILL STEM TESTS: None anticipated at this time.

CORING: None anticipated at this time.

ANTICIPATED STARTING DATE: April, 1985.

SUPERIOR OIL

August 16, 1984

Mr. Mat N. Millenbach
Area Manager
U. S. Department of Interior
Bureau of Land Management
Caller Service 4104
Farmington, New Mexico 87499

Re: Surface Use Development Plan
Proposed Well
White Mesa Unit #27-33
2311' FSL, 2448' FEL
Section 27, T41S, R24E SLM
San Juan County, Utah

Gentlemen:

We submit the following Application with Plats for permission to drill the referenced well.

1. The existing roads are shown on the attached Plat No. 3. Direction to the location from Montezuma Creek, Utah are as follows:

From the San Juan River Bridge at Montezuma Creek go south on the black top 0.4 miles to the Red Mesa Highway. Go southeast 2.5 miles to a dirt road on the left. Proceed southwest on the gravel road 2.8 miles to the location on the left.
(Refer to Plat No. 3).

2. An access road will be constructed approximately 300' long.
(Refer to Plat No. 3).
3. Location of existing wells within one mile (refer to Plat No. 5).
 - a. Water wells - none.
 - b. Abandoned wells - 7.
 - c. Temporarily abandoned wells -10.
 - d. Disposal wells - none.
 - e. Drilling wells - none.
 - f. Producing wells - 12.
 - g. Shut-in wells - none.
 - h. Injection wells -none.

SUPERIOR OIL

4. There are no existing producing facilities owned & controlled by Superior Oil within a one-mile radius. A 7,500' flowline will be laid southwest from the proposed location to a facility. (Refer to Plat No. 4).
5. Location and type of water supply will be from Superior's McElmo Creek Unit fresh water supply wells near the San Juan River (SW 1/4 Sec. 17, T41S, R25E SLM). Water will be trucked to the location over existing roads and access road to be built.
6. Source of construction materials necessary to build the drilling pad will be obtained from the location. If gravel is needed to maintain existing road or to top off the drilling pad it will be trucked from a privately owned gravel pit 0.25 miles west of Montezuma Creek.
7. Methods of handling waste disposal is to collect it in an earthen pit 6' to 8' deep with steep sides and fenced with small mesh wire and located near the mud pit. The reserved mud pit will be located on the south side of the location. When drilling operations are complete the mud pits will be allowed to dry and then backfilled and leveled to the contour of the original landscape. The reserve pit will be fenced on three sides while drilling and on the fourth side as soon as the drilling rig moves out. OSHA approved chemical toilets will be provided and maintained. (Refer to Plat No. 6 & 7).
8. Ancillary facilities. No permanent campsites or airstrips will be constructed. Two small portable trailer houses for Superior's and contractors drilling Supervisory personnel will be on the location while drilling the well. (Refer to Plat No. 6).
9. Wellsite layout. The location and position of all drilling equipment is shown on the attached plat. There is also a plat attached showing the cross section diagram of the drill pad including all cuts and fills. Material from the location will be used for pad elevation. (Refer to Plats No. 6, 7, 8, & 9).
10. Plans for restoration of the surface. Upon completion of drilling operations the site and unused portion of the access road will be restored to the contour of the original landscape and seeded in accordance with the BIA requirements.
11. Surface land is owned by the Navajo Tribe and is used primarily for grazing. Vegetation is sparse desert type ground cover. There are no Indian habitations or artifacts in the immediate vicinity of the access road, flowline or drill site.

SUPERIOR OIL

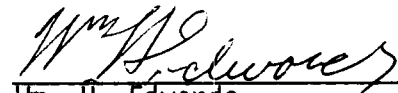
12. Superior's representatives:

Permitting - Wm. H. Edwards
Construction - C. D. Likes
Drilling - J. E. Gagneaux
Production - D. C. Collins
Mailing address - P. O. Drawer 'G', Cortez, Colorado 81321
Telephone (24 hours) - 303-565-3733
Dirt Contractor - Perry McDonald Construction
P. O. Box 1750, Cortez, Colorado 81321
Telephone - 303-565-3656
Drilling Contractor - not determined at this time.

13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by the SUPERIOR OIL COMPANY and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

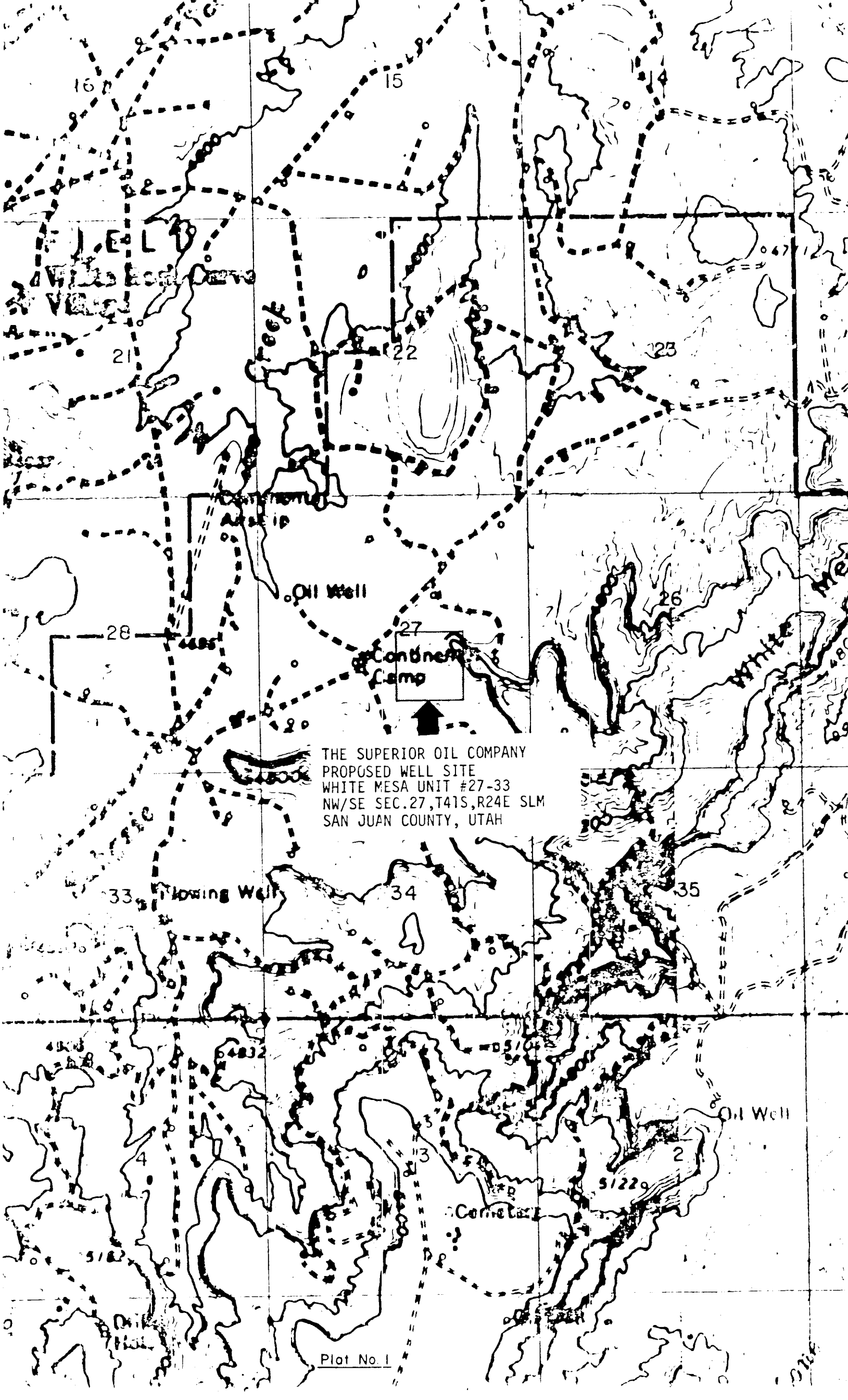
Respectfully submitted,

SUPERIOR OIL COMPANY

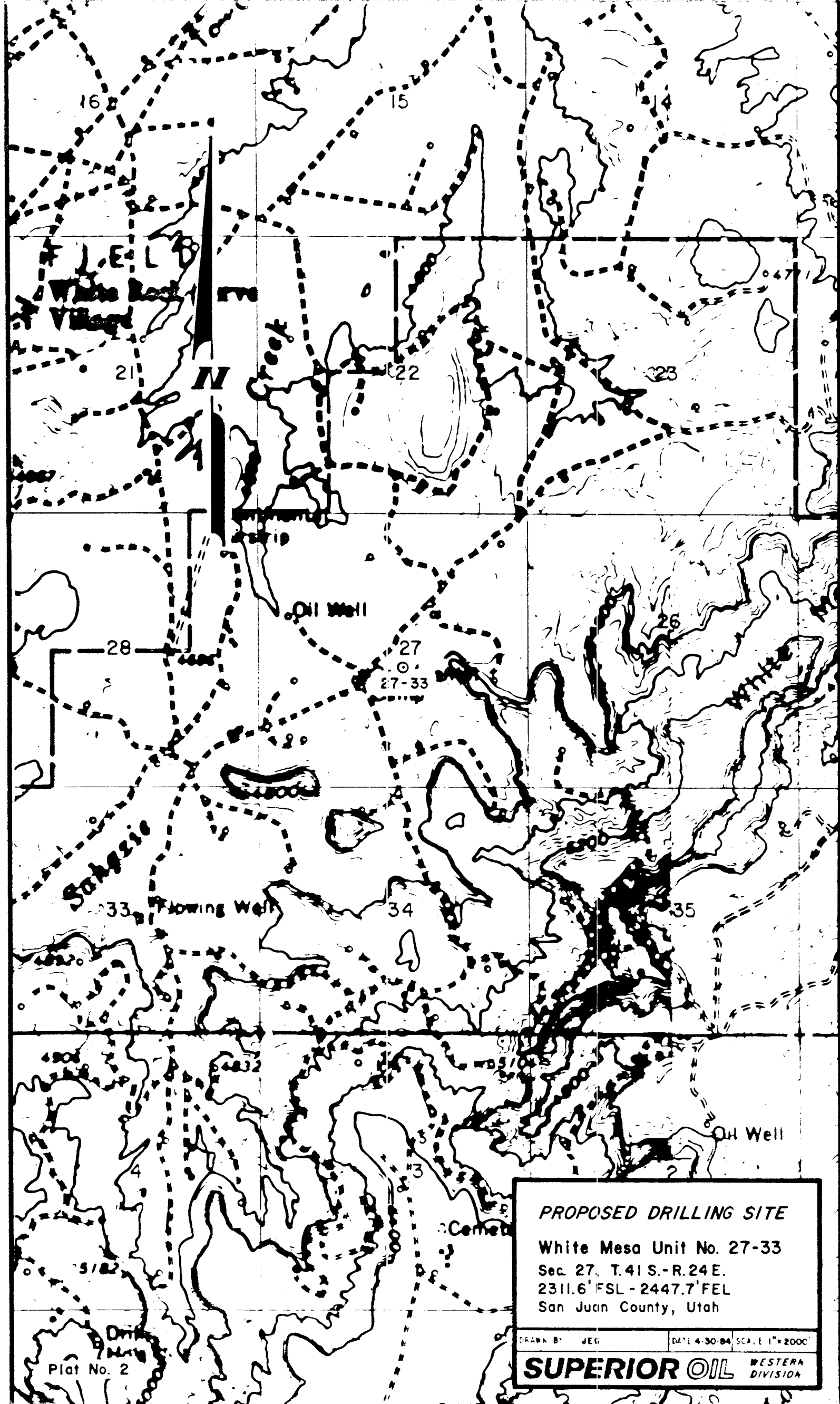


Wm. H. Edwards
Special Projects Superintendent

WHE/lh



THE SUPERIOR OIL COMPANY
PROPOSED WELL SITE
WHITE MESA UNIT #27-33
NW/SE SEC. 27, T41S, R24E SLM
SAN JUAN COUNTY, UTAH



R 24 E

16

15

14

21

N

TO MONTEZUMA
CREEK

INJ
BLDG

INJ
BLDG

YARD

"A"
BTRY

LACT

WATER
PLANT

POND

4" C" SATELLITE

HUMBLE "106"
BATTERY

**PROPOSED DRILLING SITE
& ACCESS ROAD**

White Mesa Unit No. 27-33

Sec. 27, T.41 S.-R.24 E.
2311.6' FSL-2447.7' FEL
San Juan County, Utah

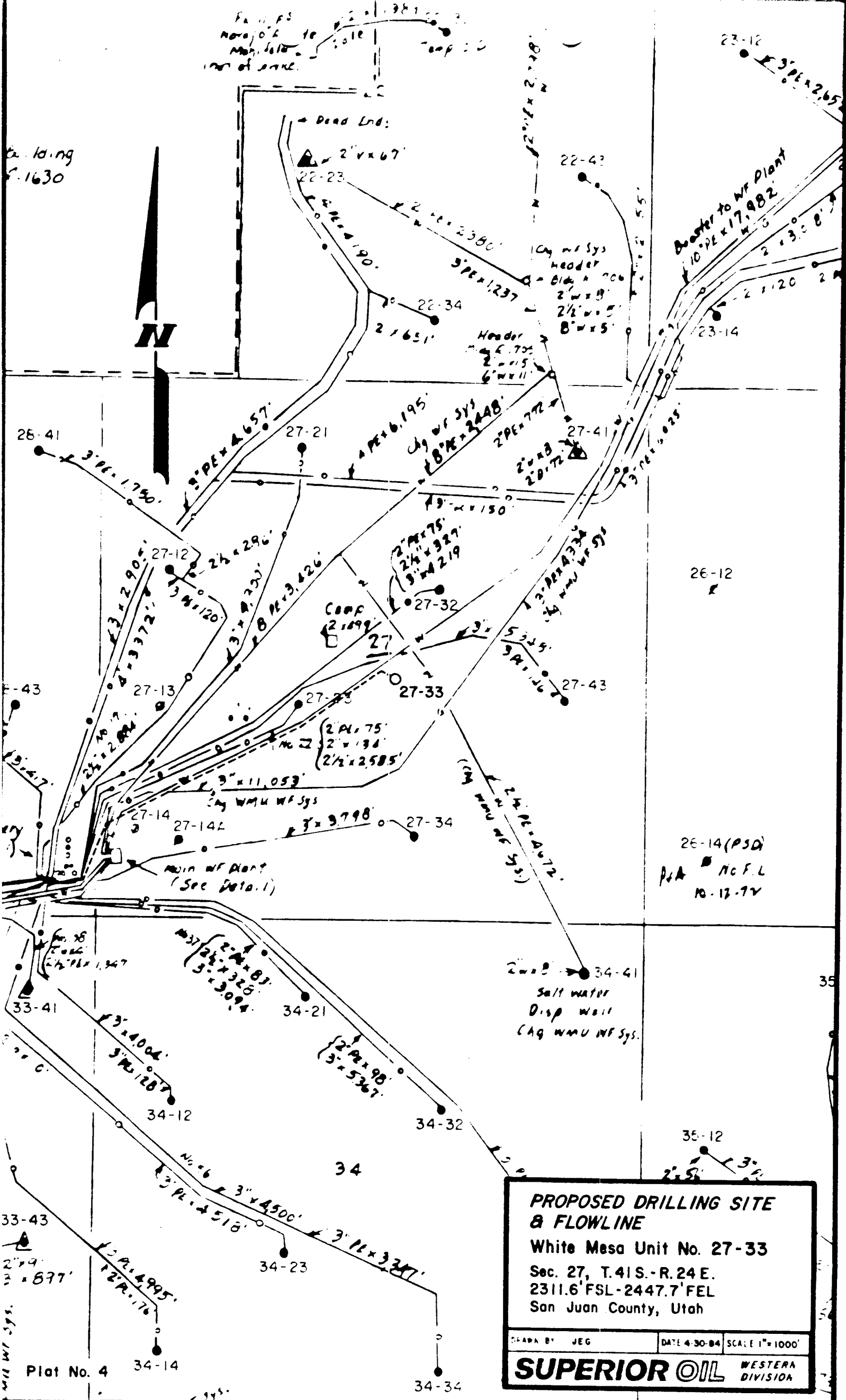
MADE BY JEG DATE 4-30-84 SCALE 1" = 2000'

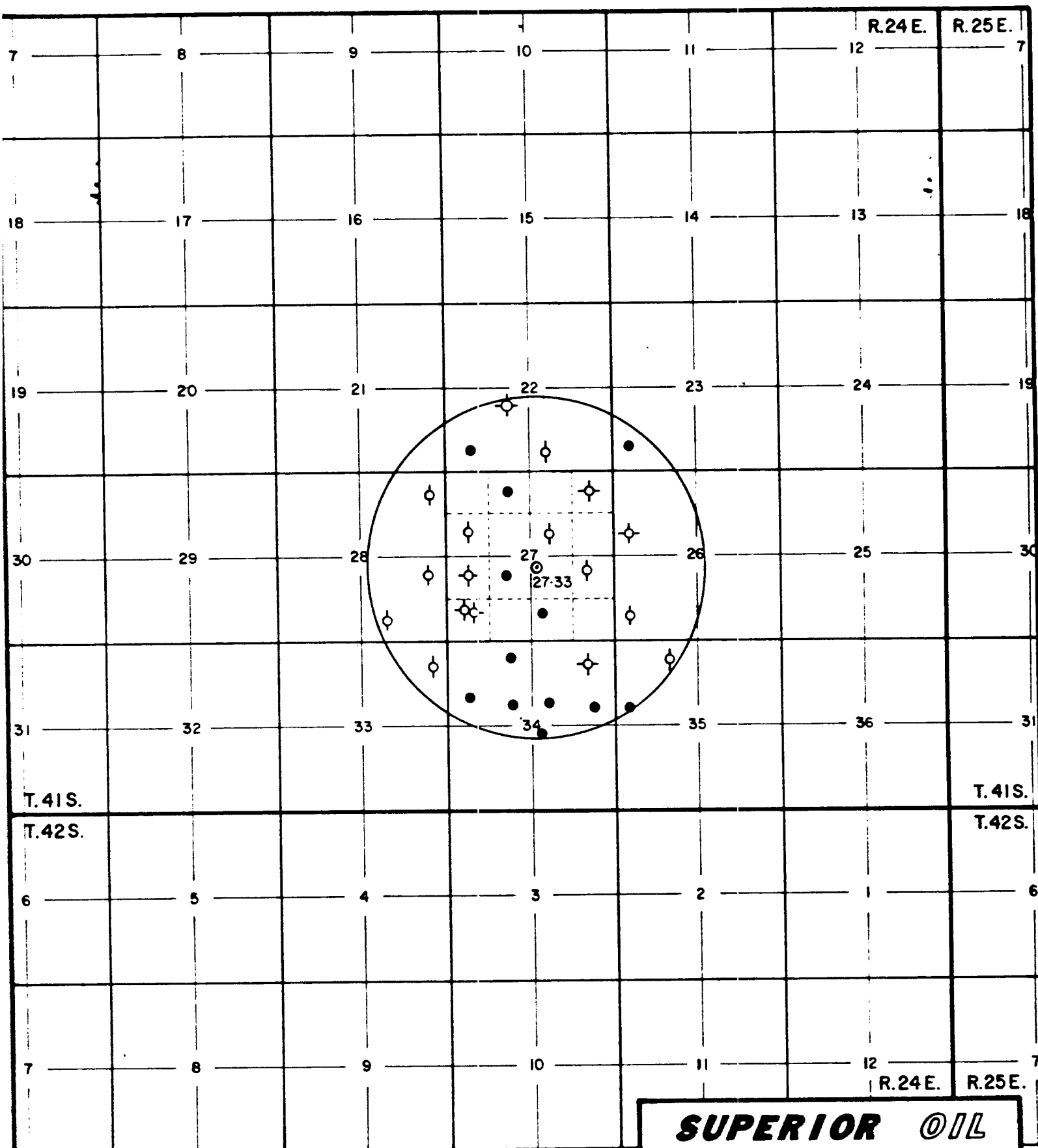
SUPERIOR OIL

WESTERN
DIVISION

Plot No. 3

10 32





- Proposed Well
- Producing Well
- ☼ Gas Well
- ⊖ Water Injection Well
- ⊕ Temporarily Abandoned
- ⊗ Plugged and Abandoned

Plot No. 5

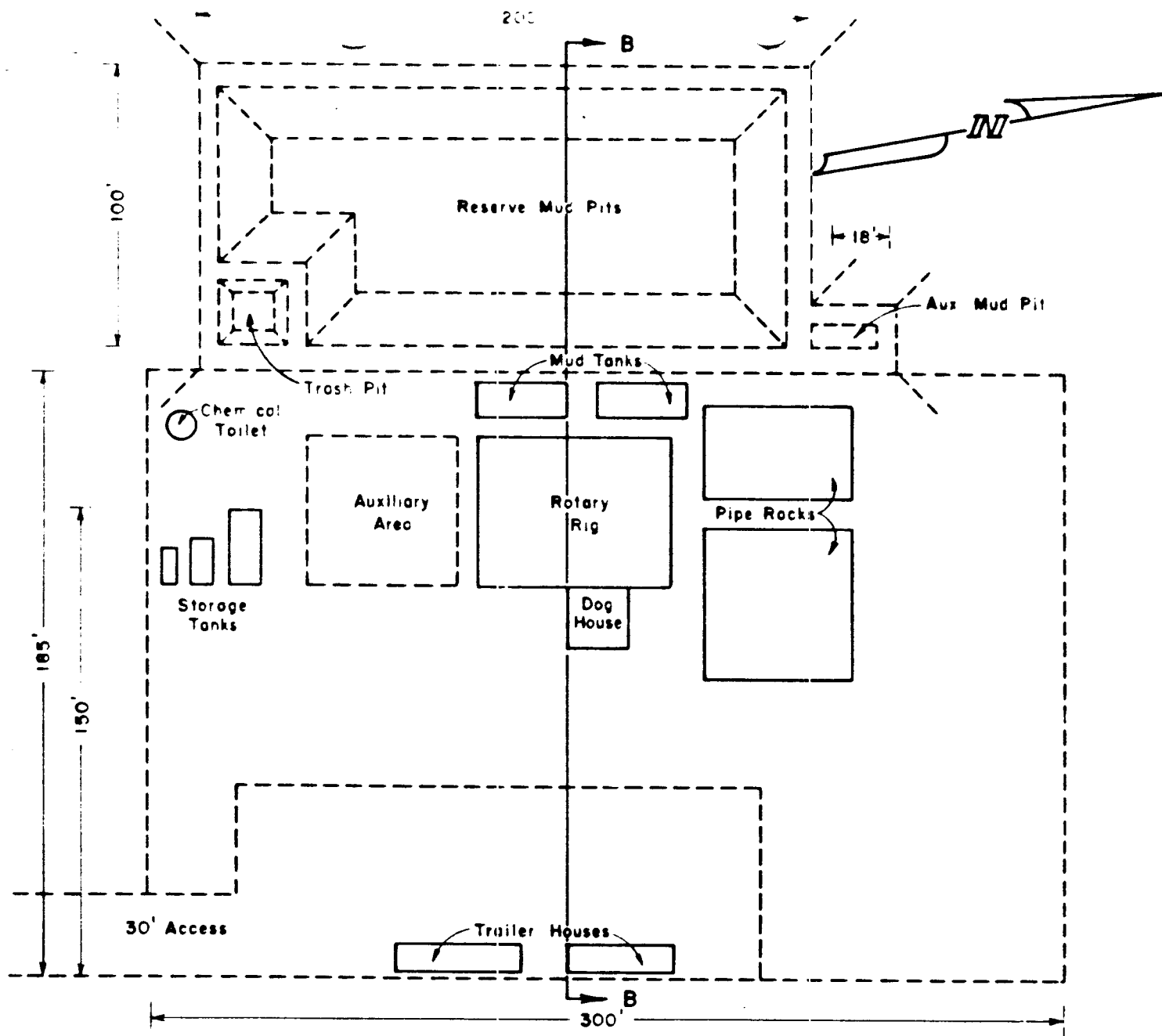
SUPERIOR OIL

EXISTING WELLS
SURROUNDING
PROPOSED WELL

0 1/2 1 mile

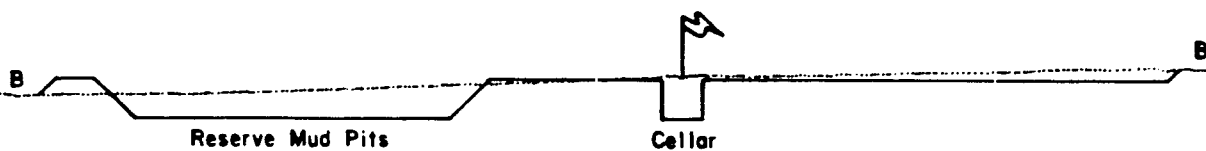
By JEG

Date 4/30/84



The Drilling Pad will be graded and compacted, and composed of native materials.

PROPOSED WELL SITE
W.M.U. 27-33
Original Elev. 4655.7'



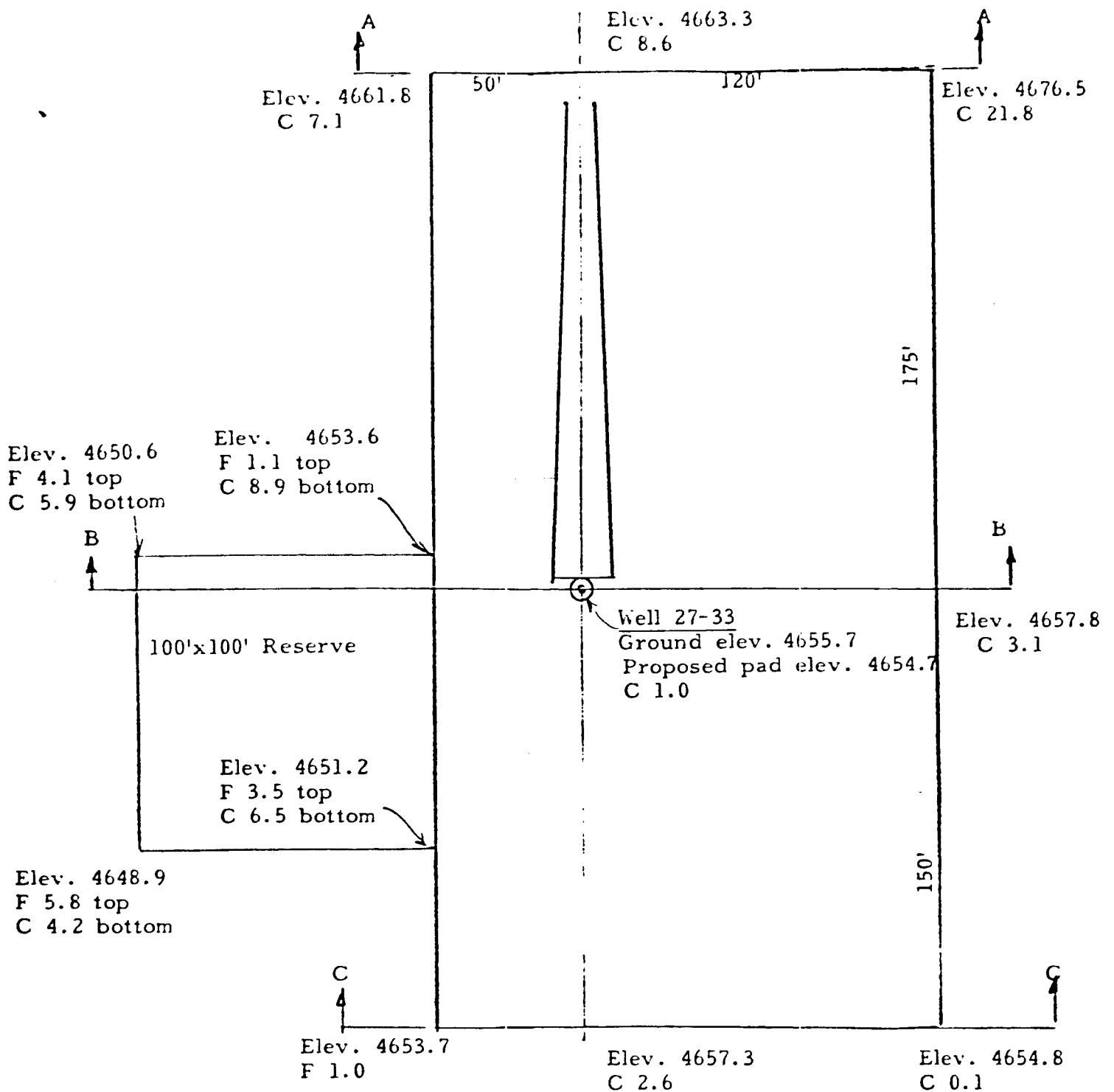
Original Contour
Reference Point
Graded Proposal

THE SUPERIOR OIL CO.
CORTES CARPES DISTRICT
ENGINEERING DEPARTMENT

**RIG LAYOUT & DRILL
PAD CROSS SECTION**

White Mesa Unit No. 27-33
Sec. 27, T. 41 S. - R. 24 E.
San Juan County, Utah

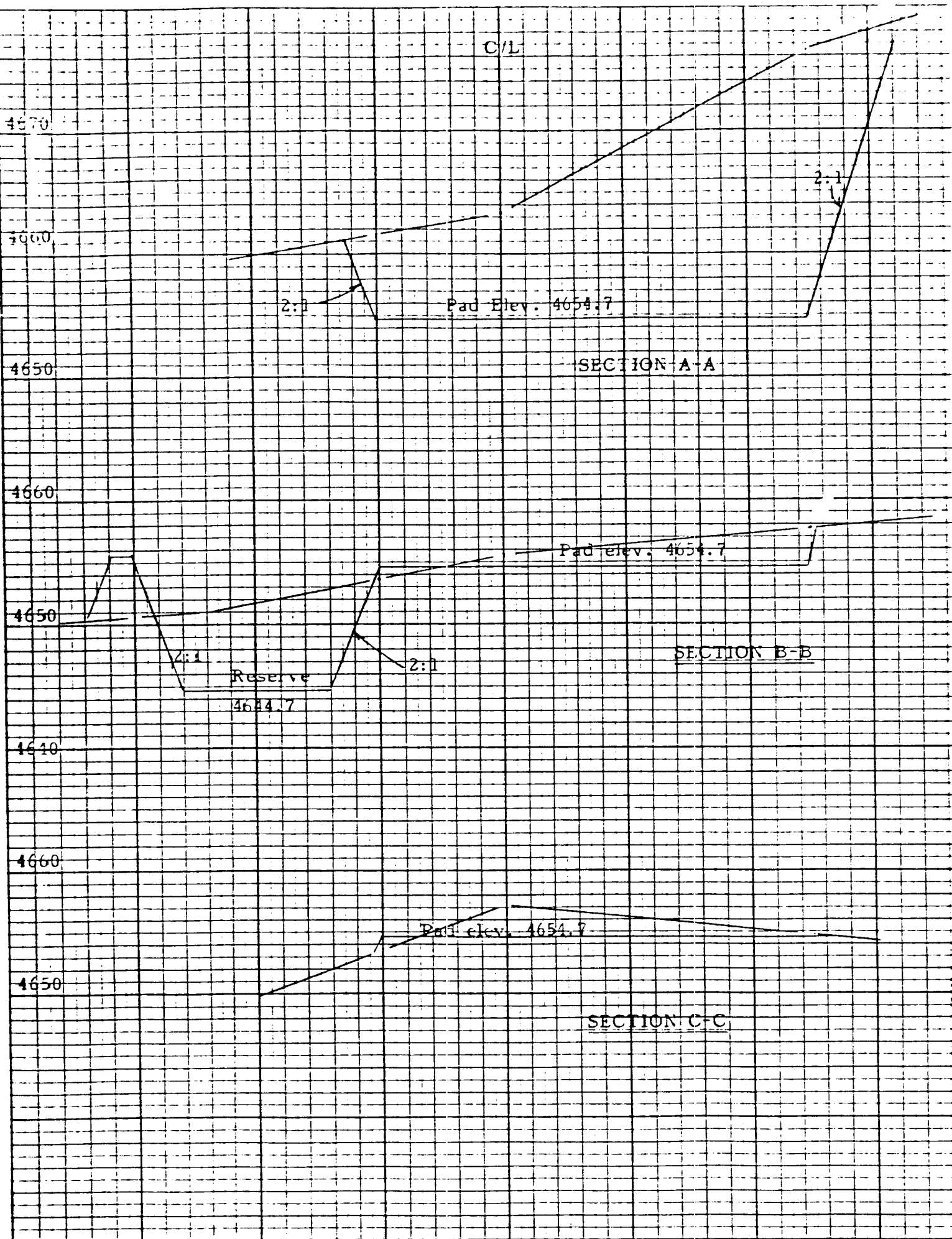
BY JEG DATE 4-30-84
SCALE 1" = 80' REVISED



Scale: 1" = 50'

THOMAS Engineering Inc.

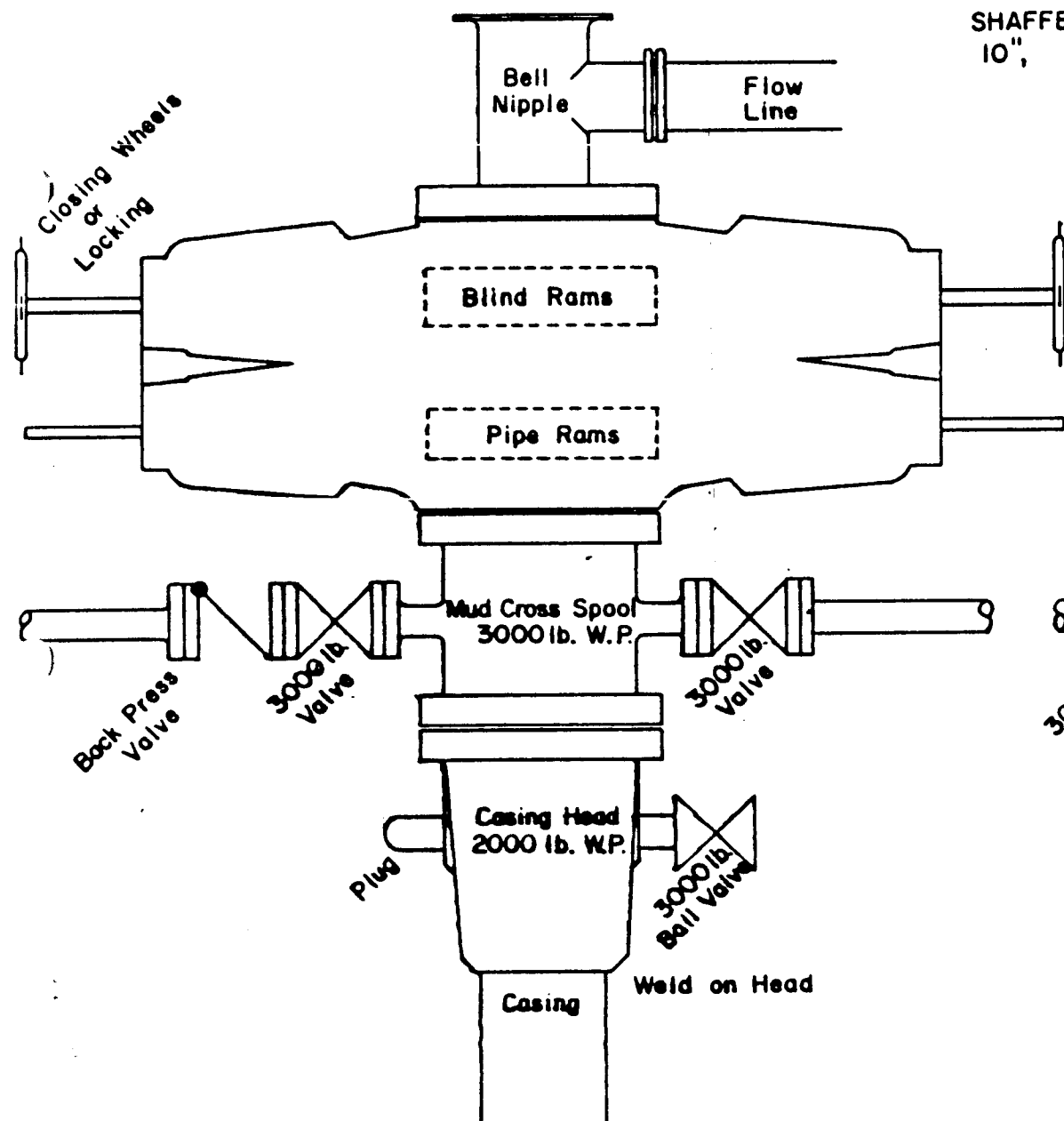
25 N. Linden
Cortez, Colorado
565-4496



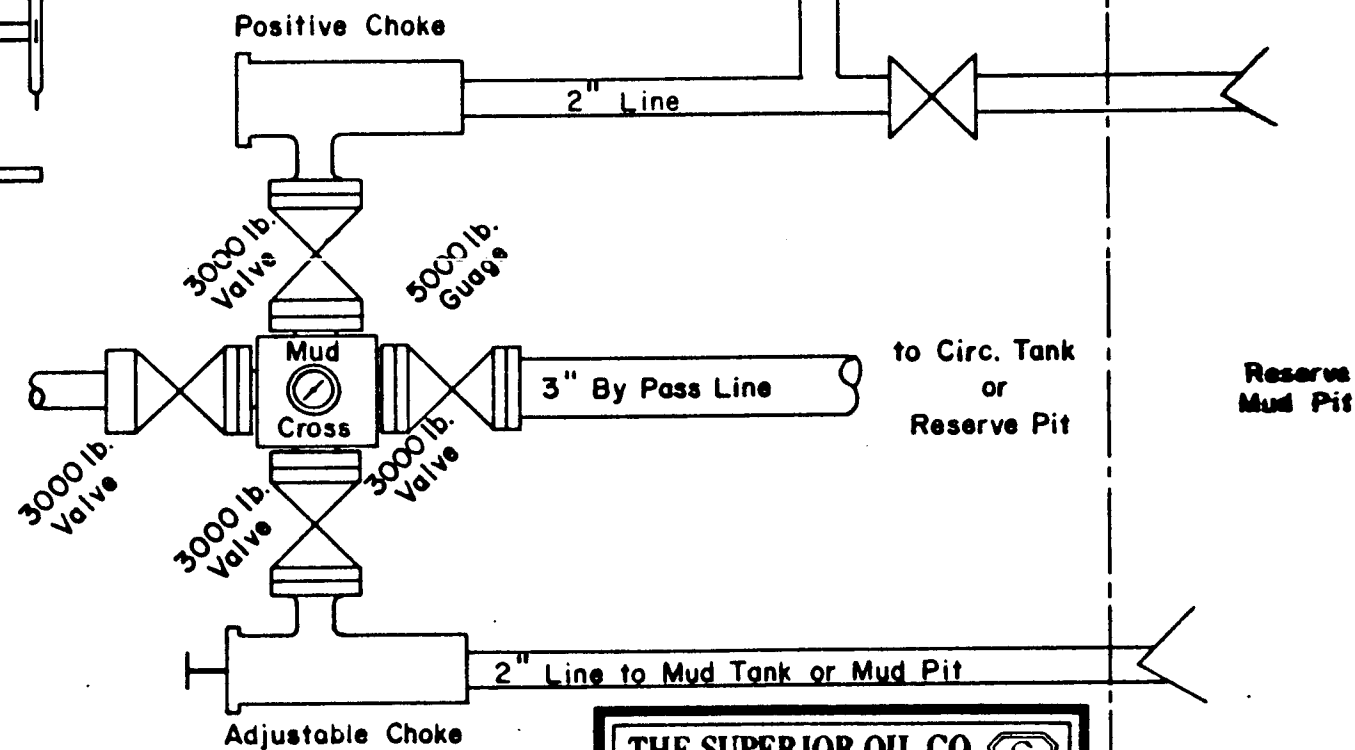
Horizontal scale: 1" = 50'
Vertical scale: 1" = 10'

THOMAS Engineering Inc.

25 N. Linden
Cortez, Colorado
565-4496



SHAFFER DOUBLE GATE BLOW OUT PREVENTER
10", 3000 lb. W.P., 6000 lb. Test, Type E



THE SUPERIOR OIL CO.
CORTIZ - CASPER DISTRICT
ENGINEERING DEPARTMENT

**SCHEMATIC DIAGRAM
OF PRESSURE CONTROL
EQUIPMENT**

BY JES DATE 6/25/79
SCALE NONE REVISED

OPERATOR Superior Oil Co. DATE 1-31-85
WELL NAME White Mesa Unit #27-33
SEC NWSE 27 T 41S R 24E COUNTY San Juan

43-037-31143
API NUMBER

Indian
TYPE OF LEASE

CHECK OFF:

☒

PLAT

☐

BOND

☐

NEAREST WELL

☒

LEASE

☐

FIELD

☐

POTASH OR
OIL SHALE

PROCESSING COMMENTS:

Unit well - OK on 1984 POD

Water OK - 84-09-9

APPROVAL LETTER:

SPACING:

☒

A-3

White Mesa
UNIT

☐

c-3-a

CAUSE NO. & DATE

☐

c-3-b

☐

c-3-c

STIPULATIONS:



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 4, 1985

Superior Oil Company
P. O. Drawer 'G'
Cortez, Colorado 81321

Gentlemen:

Re: Well No. White Mesa Unit #27-33 - NW SE Sec. 27, T. 41S, R. 24E
2311' FSL, 2448' FEL - San Juan County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

In addition, the following actions are necessary to fully comply with this approval:


1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2
Superior Oil Company
Well No. White Mesa Unit #27-33
February 4, 1985

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31143.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals
Bureau of Indian Affairs.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT TO TERRITORY
(Other Instructions on
reverse side)

Form approved
Budget Estimate No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

OIL WELL ☐ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

SUPERIOR OIL COMPANY, through its Agent, MOBIL OIL CORP.

3. ADDRESS OF OPERATOR

P. O. DRAWER 'G', CORTEZ, COLORADO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

2311' FSL, 2448' FEL NWSE

14. PERMIT NO.

43-037-31143

15. ELEVATIONS (Show whether DF, ST, OR, etc.)

4655.7' Ungraded

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-409A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

WHITE MESA

8. FARM OR LEASE NAME

WHITE MESA

9. WELL NO.

27-33

10. FIELD AND POOL, OR WILDCAT

GREATER ANETH

11. SEC., T., R., N., OR BLK. AND
SURVEY OR AREA

Sec. 27, T41S, R24E, S1

12. COUNTY OR PARISH

SAN JUAN

13. STATE

UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANE

(Other)

Cancel APD

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

☐
☐
☐

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Request approval of APD be rescinded without prejudice.

RECEIVED

JAN 14 1986

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

C. J. Benally

TITLE

Sr. Regulatory Engineer

DATE

1/8/86

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

March 28, 1986

Superior Oil Company
P.O. Drawer "G"
Cortez, Colorado 81321

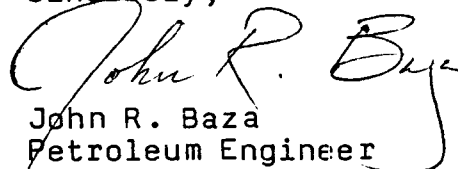
Gentlemen:

RE: Well No. White Mesa Unit 27-33, Sec.27, T.41S, R.24E,
San Juan County, Utah, API NO. 43-037-31143

Per your request, approval to drill the subject well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,


John R. Baza
Petroleum Engineer

sb
cc: BLM - Farmington
D. R. Nielson
R. J. Firth
Well file
0278T-18